

SOV/68-59-3-12/23

## Production of Pure Products from Light Pyridine Bases

chloride (ref 2) and  $\gamma$  picoline in the form of a complex with calcium chloride (ref 3) after filtering off the copper chloride complex. The method of separation of 2,4-lutidine from the fraction boiling at 155°-160°C was based on the preferential precipitation of its chlorohydrate from a mixture of other isomeric lutidines (ref 4). The precipitation of chlorohydrate of 2,4,6-collidine from the collidine fraction boiling at 170°-180°C after the removal of amines was done by the same method (ref 5). The crystallisation temperature was chosen as a criterion of the purity of the isolated compounds. The results obtained for the separation of  $\beta$  and  $\gamma$  picolines from the  $\beta$  picoline fraction are given in tables 1 and 2 respectively. The best yields of the pure products were 42.5 and 34.5 respectively (of their content in the initial fraction). The results for the separation of 2,4-lutidine from the fraction collected between 155°-160°C on industrial rectification of raw light pyridine bases are shown in table 3. The best yield obtained amounted to 28% of its content in the initial fraction. The separation of 2,4,6-collidine was

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carried out from narrow (every 5°) fractions obtained on rectification of a wide fraction 165-180°C collected on industrial rectification of raw light pyridine bases. Characteristic data of the narrow fractions are given in table 4 and the results of the separation of 2,4,6-collidine in table 5. The best yield obtained - 21.8%. The distribution of 2,4,6-collidine in the narrow fractions of pyridine bases is shown in table 6. It is pointed out that the yields of the pure products can be increased by retreatment of filtrates and residues. There are 6 tables and 5 references of which 4 are English and 1 Soviet.

ASSOCIATION: VUKhIN

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S/068/60/000/003/003/003  
E071/E233

AUTHOR: Gepshteyn, Ye. M.

TITLE: Cryoscopic Analysis of Pyridine Bases

PERIODICAL: Koks i khimiya, 1960, No.3, pp.53-56

TEXT: A cryoscopic method of determining the content of  $\beta$  and  $\gamma$  picolines and 2,6-lutidine in their mixtures is described. The method is based on the crystallising properties of the mixtures and permits the determination of 2,6-lutidine in mixtures with  $\beta$  and  $\gamma$  picoline (Fig.1 and Table 2) and  $\beta$  and  $\gamma$  picoline in their binary mixtures (Fig.2, Tables 3,4). The method consists of determining the crystallising temperature of the mixture and reading off the content of the approximate constituent from the corresponding graph or table. The crystallisation temperatures of respective mixtures were determined on synthetic mixtures of pure products (properties, Table 1). The experimental procedure is the same as in an ordinary determination of the crystallisation temperature, except that in the case of  $\beta$ -picoline at a temperature -20 - 22°C a seed of previously prepared crystal of pure  $\beta$ -picoline is added. In the case of  $\gamma$ -picoline seeding is done at -10°C and the determination should be repeated with seeding at a temperature of Card 1/4

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EC71/E233

### Cryoscopic Analysis of Pyridine Bases

2-3°C below the crystallisation temperature previously found. The accuracy of the method as tested on synthetic mixtures is about ±0.8% for lutidine; ± 0.8-0.9% for β-picoline and ±0.6-0.7% for γ-picoline. There are 4 tables and 2 figures.

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Table 2 The influence of additions of β and γ picolines on the temperature of crystallisation of 2,6-lutidine.

2,6-lutidine	β-picoline	γ-picoline	CrySTALLISATION Temperature, °C
95.21	-	4.79	-8.2
94.98	5.02	2.40	-8.3
95.11	2.49	9.10	-8.4
90.90	-	4.82	-10.4
90.60	9.40	-	-10.6
90.26	4.92	16.80	-10.3
83.20	-	-	-14.5
83.18	16.82	8.18	-14.3
83.30	8.52	-	-14.3

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## Cryoscopic Analysis of Pyridine Bases at alligation temperature

Cryoscopic Analysis of Pyridine Bases

Table 3 Crystallisation temperatures of synthetic mixtures of  
β and γ picolines.

<u>Table 3</u>	Crystallisation $\beta$ and $\gamma$ picolines.	Synthetic mixture, %	Crystallisation Temperature, °C	Synthetic mixture, %	Crystallisation Temperature, °C
$\beta$ -picoline	$\gamma$ -picoline				
				$\beta$ -picoline $\gamma$ -picoline	

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## Cryoscopic Analysis of Pyridine Bases

Искусственная смесь, %		Искусственная смесь, %		Температура кристаллизации смеси, °С	
1-пикоидин	5-пикоидин	1-пикоидин	5-пикоидин	1-пикоидин	5-пикоидин
100,0	—	—	—	42,0	—
98,0	2,0	—	—	42,0	—
96,0	4,0	—	—	48,0	—
94,9	5,1	—	—	52,0	—
92,0	8,0	—	—	50,0	—
89,1	10,9	—	—	45,0	—
87,0	13,0	—	—	40,0	—
85,0	15,0	—	—	37,0	—
82,0	18,0	—	—	32,0	—
79,3	20,7	—	—	30,0	—
80,0	20,0	—	—	25,0	—
77,0	23,0	—	—	22,0	—
75,5	24,5	—	—	20,1	—
75,1	24,9	—	—	20,1	—
73,0	27,1	—	—	15,3	—
71,4	28,6	—	—	13,0	—
70,2	29,6	—	—	12,1	—
69,4	30,6	—	—	10,0	—
67,0	33,0	—	—	8,0	—
66,8	33,2	—	—	5,1	—
66,0	36,0	—	—	—	—
62,2	37,8	—	—	—	—
60,0	40,0	—	—	—	—

Card 4/4

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Colorimetric determination of  $\gamma$ -picoline in the technical  
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(MIRA 16:1)

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(Black Sea region—Geology, Stratigraphic)

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1. Department of Invertebrate Zoology and White Sea Biological  
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27671

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TA 7741

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7741

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000514810004-8

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SEPTNER, V.G.

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(Vorob'ev, K.A.) (Ussuri Territory--Birds) (Birds--Ussuri  
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universiteta imeni M.V.Lomonosova.

(Tarpan)

GEPTNER, V.G.

GRAMYATSKIY, M.A., prof.; IVANOV, A.V., prof., red.; NAUMOV, N.P., prof.,  
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prof.; red.; STRAUTMAN, P.I., prof., red.; NIKOL'SKIY, G.V., prof.,  
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[Program in human anatomy for biology and soil biology faculties in  
state universities] Programma po anatomii cheloveka dlia biologi-  
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(Kopanovo region--Swallows)

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gosudarstvennogo universiteta imeni M.V. Lomonosova.  
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GIFTNER, V.G.

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1. Akademiya nauk SSSR.  
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LAVRENKO, Ye.M.; GMPHTNER, V.G.; KIRIKOV, S.V.; FORMOZOV, A.N.

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GEPPTNER, V.O.

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'58. (MIRA 11:9)  
(Bird song)

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Time and causes of extinction of the Caucasian marmot. Nauch.dokl.  
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(Caucasus--Marmots, Fossil)

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1. Chair of Vertebrate Zoology and Zoological Museum of Moscow  
State University.  
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KEPNER, V.G.

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1. Department of Vertebrate Zoology and Zoological Museum of the  
State University of Moscow.  
(Greater Balkhan Range---Pikas)

GEPTNER, V.G.

"Mammals of the Caucasus; history of the formation of the fauna"  
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(Caucasus--Zoogeography) (Vereshchagin, N.K.)

SHUKUROV, Gel'dy Shukurovich[deceased]; GEPTNER, V.G., prof., red.;  
NASIBOVA, S.G., red. izd-va; IVONT'YEVA, G.A., tekhn. red.

[Vertebrate animals of the Greater Balkhan Mountains; South-  
western Turkmenistan] Fauna pozvonochnykh zhivotnykh gor  
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STROGANOV, Sergey Ul'yanovich, prof.[deceased]; GEPTNER, V.G., prof.,  
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(MIRA 18:7)

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1. Kafedra zoologii i srovnitel'noy anatomi pozvonochnykh i  
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GETTSINGER, G. T.

Aug 1957

USER/Electrical  
Voltage - Regulators  
Oscillators, High Frequency

Two-stage Regulators for High Frequency Generators,

G. P. Gettsinger, Candidate in Technical Sciences,

TEL, 7 pp

Westarik Electric-Promethmostir No 8

A generator working on high frequency (600 cycles) must operate steadily with a maximum allowable fluctuation of plus or minus 1%. This new type regulator is an electronic device with a thyratron oscillator. It conforms to the construction of a large capacity normal frequency generator. Schematic diagram of the circuit wiring for this new regulator.

Aug 1957

USER/Electricity (Contd.)  
Operation of this thyratron regulator gave excellent results.

2400A

SOV/137-59-5-11323

Translation from: Referativnyy zhurnal, Metallurgiya, 1959, Nr 5, p 263 (USSR)

AUTHOR:

Ger. A.

TITLE:

Extrusion in Tapered Dies

PERIODICAL:

Za industr. Ryazan' (Sovnarkhoz Ryazansk. ekon. adm. r-na,) 1958,  
Nr 9, pp 25 - 27

ABSTRACT:

The author analyzes the extrusion process without clamping the sheet in tapered and radial dies. The advantages of the method are stressed, such as: simplified design of the dies; the use of double-action presses is not necessary; a lesser extrusion coefficient is obtained; the number of operations is reduced. Data on technical characteristics of the extrusion in tapered dies without clamping are given for various materials, as well as die designs.

Ye.L.

Card 1/1

GER,A.E.

E-9

Category : USSR/Solid State Physics - Mechanical Properties of Crystals and  
Polycrystalline Compounds

Abs Jour : Ref Zhur - Fizika, No 2, 1957 No 3967

Author : Ger, A.E.  
Title : Separation Surface Between Phases and Mechanical Properties of Pearlite  
Structures

Orig Pub : Metallovedeniye i obrabotka metallov, 1956, No 5, 15-17

Abstract : The strength of grainy structures increases with increasing surface of  
separation between phases, while the plasticity decreases. For laminated  
structures, both the strength and plasiticty increase with increasing  
phase-separation surface.

Card : 1/1

SOV/137.59.1.1254

Translation from: Referativnyy zhurnal Metallurgiya, 1959, Nr. 1, p. 170 (USSR)

AUTHOR: Ger, A. E.

TITLE: The Effect of Lamellar and Spheroidized Cementite Structure on the Mechanical Properties of Steel (Vliyanie plastinchatykh i zernistykh form tsementita na mekhanicheskiye svoystva stali)

PERIODICAL: Nauchno-issled. tr. Kostromsk. tekhn. in-t. 1958, Nr. 10, pp. 185-199

ABSTRACT: U8 steel with a lamellar (LCS) and a spheroidized cementite structure (SCS) was employed in the following investigations. Determination of mechanical properties ( $\sigma_b$ ,  $\sigma_s$ ,  $\delta$ , and  $\psi$ ) under tension, at temperatures of +20 and -183°C, and under torsion ( $\tau_p$ ,  $\tau_b$ , maximal shear); double-shear testing; tensile testing of specimens with a circumferential groove; impact testing; bend testing of disks at a temperature of -196°, and determination of the magnitude of the phase-boundary interface accomplished with the aid of an electron microscope. A relationship was established between the  $R_C$  value within the limits of 15-35, the magnitude of the phase-boundary interface, and the mechanical characteristics of the SCS and LCS. Up

Card 1/2

SOV/137-50-1-1254

## The Effect of Lamellar and Spheroidized Cementite Structure (cont.)

to a value of  $\sigma_b$ , plastic deformations have a considerably greater effect on hardening of steels with a LCS; hardening occurring during deformations beyond the  $\sigma_b$  value is only slightly dependent on the shape of the cementite. The  $a_k$  values of longitudinal specimens of steel with a LCS are 2.4 - 2.6 times lower than those of steel with a SCS; compared with steels with a SCS, steels with a LCS exhibit greater susceptibility to cold-shortness, are more sensitive to stress concentrations, and exhibit a lower ultimate tensile strength. In the case of SCS, an increase in the phase-boundary interface area improves the tensile strength characteristics but reduces the plasticity; in the case of steels with a LCS, an increase in the phase-boundary interface area results in an increase in tensile strength as well as in plasticity. Bibliography 10 references

A B

Card 2/2

DARDYMOV, I.V.; GKR, B.A.

Pharmacology of subecholine (corconium). Farm. i toks. 26  
no. 68661-667 N-D '63 (MIRA 18:2)

I. Laboratoriya farmakologii (zav. - prof. M.Ya. Mikhel'son)  
Institut evolutsionnoy fiziologii imeni I.M. Sechenova AN SSSR.

GERA, Gyorgy, okleveles kozgazda, tudományos munkatárs

Certain questions of the development of English transportation  
policy after World War II. Kozl tud sz 15 no.4:172-180 Ap '65.

1. Scientific Research Institute of Automobile Transportation,  
Budapest.

GERA, Gyorgy

Report on the London exhibition on loading mechanization.  
Kozleked kozl 20 no.43:703-705 25 0 '64.

GERA, Imre (Szeged)

Forum of innovators. Ujít lap 12 no.16:31 25 Ag '60.

GERA, Istvan

Method for calculating material demands in steel foundries.  
Kohlap 9 no. 12; Supplement. Ontodé 5 no. 12: 270-275 D '54.

GERABEK, A.; FOREJTEK, L.; NAVESNIK, M.

"Erection of the winter stadium in Paradubice," p. 144

POZEMNÍ STAVBY. Praha, Czechoslovakia, Vol. 7, No. 3, March, 1959

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 9, September 1959  
Uncl.

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000514810004-8

GERAKOVA, T.N.

MAL'CHEVSKIY, A.S.; POKROVSKAYA, I.V.; OVCHINNIKOVA, N.P.; GERAKOVA, T.N.

Ecological features of the distribution of bird nests in forests.  
Uch. zap. Len. un. no. 181:77-101 '55. (MLRA 8:11)  
(Birds--Eggs and nests)

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000514810004-8"

GERALAVICHUS, V. Yu.

GERALAVICHUS, V. Yu.: "A comparative zoohygienic evaluation of standard two-row and four-row cowsheds under conditions of the Lithuanian SSR." Acad Sci Lithuanian SSR. Inst of Biology. Lithuanian Sci Res Inst of Animal Husbandry and Veterinary Medicine. Vil'nyus, 1956.  
(Dissertation for the Degree of Candidate in Veterinary Sciences.)

Source: Knizhnaya letopis' No 40 1956 Moscow

GERAMI, D.

USSR/Cultivated Plants - Commercial. Oil-Bearing. Sugar-Bearing. M-5

Abs Jour : Ref Zhur - Biol., No 7, 1958, 29886

Author : Gerami, D.

Inst :  
Title : The Effect of Shallow Plowing on the Development and Yield  
of Cotton in Tadzhikistan.

Orig Pub : Vestn. s.-kh. nauki, 1957, No 6, 109-112 (resume in Eng.  
Ger).

Abstract : No abstract.

Card 1/1

- 12 -

GERANI, D., Cand Agr Sci -- "Effect of the basic-tilling  
method of sowing <sup>with</sup> on the cotton <sup>plant</sup> harvest in the irrigated  
farming-lands of TaSSR." Mos, 1961. (Mos Order of Lenin  
Agr Acad im K. A. Timiryazev) (KL, 8-61, 253)

- 356 -

ZAIMOV, K.; GERANLIEV, B.; BELCHEV, D.; ZAIMOVA, S.

Observations on mental processes in patients with severe schizophrenic personality disorders during the course of occupational therapy.  
Nauch. tr. vissh. med. inst. Sofia 39 no.6:115-132 '60.

1. Predstavena ot prof. G. Uzunov, rukovoditel na Katedrata po  
psichiatriia.

(OCCUPATIONAL THERAPY) (SCHIZOPHRENIA ther)

I 5D93-66 RWT(d)/PSS-2  
 ACCESSION NR: AF5020119

UR/0109/65/010/008/1418/1425  
 621.391.14

AUTHOR: Gakin, N. G.; Geranin, V. A.; Karnovskiy, M. I.; Krasnyy, L. G.;  
 Cherny, N. I.

TITLE: Probability density of the derived phase of a modulated signal combined  
 with a Gaussian noise

SOURCE: Radiotekhnika i elektronika, v. 10, no. 8, 1965, 1418-1425

TOPIC TAGS: signal detection

ABSTRACT: This formula has been developed for a single-variable density of  
 probability of the derived phase of a combination that comprises an amplitude-  
 and-angle-modulated radio signal and a Gaussian noise:

$$W_1(\theta) = \frac{1}{8\pi D_p \sqrt{\delta\theta}} \exp\left(K + \frac{\lambda_2 + \nu_2}{2}\right) \left\{ (\lambda_1 + \nu_1) I_0\left[\frac{1}{2} \sqrt{\mu^2 + (\lambda_2 - \nu_2)^2}\right] + \right. \\ \left. \frac{\mu(\mu^2 + (\lambda_1 - \nu_1)(\lambda_2 - \nu_2))}{\sqrt{\mu^2 + (\lambda_2 - \nu_2)^2}} I_1\left[\frac{1}{2} \sqrt{\mu^2 + (\lambda_2 - \nu_2)^2}\right]\right\}. \quad (28)$$

Card 1/2

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ACCESSION NR: AF5020119

The formula allows for the stagger between the signal carrier frequency and the frequency  $\omega_0$  corresponding to the maximum spectral density of the noise average power  $F(\omega)$ ; it also allows for the asymmetry between  $F(\omega)$  and  $\omega_0$ . The formula encompasses all particular cases dealt with earlier in various publications (S. O. Rice, BSTJ, 1948, v. 27, p. 109; D. Middleton, J. Appl. Phys., 1948, v. 19, p. 817). Curves are supplied which correspond to a linear FM of the signal. Orig. art. has 7 figures and 49 formulas.

ASSOCIATION: none

SUBMITTED: 01 Jun 64

ENCL: 00

SUB CODE: EC

NO REF Sov: 003

OTHER: 002

Card 2/2

GERANIN, V.A.; LAUFER, M.V.

Calculating the output effect of varying-intensity magnetic signals  
Nauch.dokl.vys.shkoly; radiotekh.i elektron. no.4:227-231 '58.  
(MIRA 12:6)

1. Kafadra akustiki i zvukotekhniki Kiyevskogo politekhnicheskogo  
instituta.  
(Magnetic recorders and recording)

SOV/142-58-4-4/30

**AUTHOR:** Geranin, V.A.**TITLE:** On the Question of Residual Surface Induction of a Harmoniously Magnetized Tape (K voprosu o poverkhnostnoy ostatochnoy induktsii garmonicheskoi namagnichennoy lenty)**PERIODICAL:** Izvestiya vysshikh uchebnykh zavedeniy - Radiotekhnika, 1958, Nr 4, pp 411-414 (USSR)**ABSTRACT:** The paper discusses the question of changing residual surface induction of a magnetic tape recorder, where there is a change in the distance between the tape surface and the sound head from infinity to zero. The paper also examines problems arising out of a magnetic notation and the question of the relation of surface induction to the wave length of the recorded oscillation. Another important question is how far the nature of this dependence varies, when the hitherto free working surface of the support is brought into absolute contact with the main part of the head. The paper

Card 1/3

SOV/142-58-4-4/30

On the Question of Residual Surface Induction of a Harmoniously  
Magnetized Tape

contains the answer to this question. The dependence  
sought after is given in the formula:

$$B_{s_0} = \mu_h \frac{1 + \mu_2 + \left(\mu + \frac{\mu_1}{\mu}\right) \text{th } kd}{\mu_h + \mu_2 + \left(\mu + \frac{\mu_h \mu_2}{\mu}\right) \text{th } kd} B_{s_\infty}$$

Where  $B_{s_0}$  and  $B_{s_\infty}$  - surface induction in the cases  
 $\mu_1 = \mu_h$  and  $\mu_2 = 1$ ,  $\mu$  - the relative magnetic permeability  
of the tape in the plane  $y = d$  (working surface of the  
tape),  $\mu_h$  - the relative magnetic permeability of the ideal  
pick-up head,  $\mu_2$  - the relative magnetic permeability  
of the medium that adjoins the tape in the plane  $y = 0$ ,  
 $k = 2\pi/\lambda$ ,  $\lambda$  - wave length of the observed oscillation,  
 $d$  - working surface of the tape. This formula is vari-  
ed for different values of  $\mu_1, \mu_h, \mu$  which gives the  
relation  $B_{s_0} - B_{s_\infty}$ . There are 9 references, 2 of  
which are Soviet, 6 English and 1 German.

Card 2/3

SOV/142-58-4-4/30

On the Question of Residual Surface Induction of a Harmoniously  
Magnetized Tape

ASSOCIATION: Kafedra akustiki i zvukotekhniki Kiyevskogo ordena  
Lenina politekhnicheskogo Instituta (Chair of  
Acoustics and Sound Engineering, Kiyev Polytechnical  
Institute)

SUBMITTED: January 8, 1958

Card 3/3

*GERANIN V. A.*

II засідка  
(з 10 до 12 годин)

А. Н. Геранін,  
Р. С. Арефа

Симплекс системи зв'язку з пілотами  
планет

А. А. Борисовський,  
Н. Н. Денисов  
(1) використання позитивного діючого будь-якого  
переміщення генератора

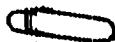
А. А. Борисовський  
(2) створення умов для позитивної заміни аудіо

В. А. Геранін  
II засідка пілотами спостереження

12 годин  
(з 10 до 10 годин)

М. С. Крікєв,  
О. Н. Вороній

Задача генератора в зваженій операції з пілотами планет



III засідка

Фотографічні установки для засувального за-  
бруднення та встановлення зображення пристрою  
на предметах

IV. СЕКЦІЯ ЕЛЕКТРОННО-ВИЧИСЛЯЛЬНИХ  
РЕДАКТОРІВ

Руководитель: З. В. Гутников

10 година  
(з 10 до 10 годин)

Симплекс системи з позитивної залогово-  
вимірювальною проблемою

В. Н. Гаврилов

Діагностичний пристрій за залогово-вимірювальною про-  
блемою

А. Ю. Геранін,

Е. В. Гайдай,

Е. Н. Іванов,

В. А. Кліменко,

Г. В. Коновалов

Симплекс системи з позитивної залогово-  
вимірювальною проблемою

А. Н. Геранін,

І. М. Алешина,

Н. С. Бондарь

Report submitted for the Conference Meeting of the Scientific Technological Society of  
Radio Engineering and Electrical Communications No. A. S. Popov (VKRUE), Moscow,  
5-12 June, 1959

GERANIN, V. A. Cand Tech Sci -- (diss) "Certain problems of the theory of magnetic signalgrams." Kiev, 1959. 16 pp with illustrations. (Min of Higher Education UkrSSR. Kiev Order of Lenin Polytechnic Inst. Chair of Acoustics and Sound Engineering), 100 copies. List of author's works, pp 15 (12 titles) (KL, 49-59, 140)

6.5200  
9.7910

S/108/60/015/009/012/012/IX  
B012/B063

AUTHOR: Geranin, V. A., Active Member of the Society \*

TITLE: The Field of a Harmonically Magnetized Tape b7f

PERIODICAL: Radiotekhnika, 1960, Vol. 15, No. 9, pp. 71 - 72

TEXT: This is a critical comment on an article published by Q. Schmidbauer (Ref.1) in the periodical "Frequenz", which deals with the analysis of the field of a harmonically magnetized tape. On account of an error, the set of equations (17), (21), and (22) describing the magnetic field of the tape does not satisfy the boundary conditions. Schmidbauer's principal error arises from the use of the method of the reflected image for determining the field strength in the space surrounding the magnetized tape. Moreover, he determined the "mirror weight" of the magnetic space charges not very accurately. It is noted that, in the present case, the boundary conditions  $y$  and  $d$  are satisfied only if the "mirror weight" of the above-mentioned space charges is defined as follows:  $(1 - \epsilon_1) \mu/\mu_1$ . Furthermore, Schmidbauer made another

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Card 1/2

The Field of a Harmonically Magnetized  
Tape

S/108/60/015/009/012/012/XX  
B012/B063

✓C

mistake: In formula (22), the multiplier before the second integral in  
the numerator of the fraction is not correctly written down. In view of  
the foregoing corrections, the set of equations expressing the magnetic  
field of the tape is given in the correct form. There is 1 non-Soviet  
reference.

SUBMITTED: April 16, 1960

\* N 90-10-1 P H A R M A T I C K Y M A G N E T I Z E D  
R A D I O E M I S S I O N A T H E R M I C A L P R O P E R T I E S

Card 2/2

GIRANIN, V.A.

Fundamental concepts and terminology of the theory of magnetic recording and reproduction of signals. Radiotekhnika 15 no.6:74-76 Je '60.

(MIRA 13:7)

1. Deystvitel'nyy chlen nauchno-tehnicheskogo Obshchestva radio-tehniki i elektrosvyazi im. A.S. Popova.  
(Magnetic recorders and recording)

GERANIN, V.A.

Distribution of residual magnetism through the thickness of a magnetic recording ribbon. Radiotekhnika 16 no.3:69-74 Mr '61.  
(MIRA 14:2)

1. Deystvitel'nyy chlen Nauchno-tehnicheskogo obshchestva radiotekhniki i elektrsovyyazi im. A.S.Popova.  
(Magnetic recorders and recording)

S/108/61/016/012/008/009  
D201/D302

AUTHOR: Geranin, V.A.

TITLE: Theory of variable intensity signal magnetic tape  
recording

PERIODICAL: Radiotekhnika, v. 16, no. 12, 1961, 58-65

TEXT: In the present article the author considers longitudinal and transverse variable intensity signal recording on a magneto-dielectric tape, under the usually assumed conditions of an ideal head and a flat parallel tape. For both types of recording the resultant effect and the surface induction of the magnetic tape are derived with the distance between the tape surface and head, a function representing the distribution of residual magnetization in the coating thickness and the magnetic permeability of the head as parameters. Although the results were obtained for a head in the form of a semi-infinite bloc they may be applied to a toxoidal (ring) reproducing head provided that a) the gap width is much smaller than the wavelength; b) the length of contact of the magnetic coating with the head is large as compared with the wavelength;

Card 1/2

S/108/61/016/012/008/009  
D201/D302

Theory of variable ...

c) the eddy currents in the core of the head may be neglected. The results obtained may be used as fundamentals for any kind of magnetic tape engineering problem. It is pointed out that if, in any particular case, the law of distribution of  $\Phi$  over the magnetic coating thickness is not known, it may be initially assumed that  $F(\lambda, y) = 1$  [ $\Phi(\lambda, y) = 1$ ],  $\Phi(\lambda, y)$  being the law of distribution of residual magnetization over the thickness of magnetic coating. There are 1 figure, 10 references, 7 Soviet-bloc and 3 non-Soviet-bloc. The reference to the English-language publication reads as follows: R.L. Wallace, BSTJ, v. 30, p. 1145-1173, 1951.

ASSOCIATION: Nauchno-tehnicheskoye obshchestvo radiotekhniki i elektronsvyazi im. A.S. Popova (Scientific and Technical Society of Radio Engineering and Electrical Communications im. A.S. Popov) [Abstracter's note: Name of Association taken from the first page of journal]

SUBMITTED: April 16, 1960 (initially)  
September 14, 1960 (after revision)

Card 2/2

6.9000  
S/142/62/005/003/004/009  
E140/E435

AUTHORS: Geranin, V.A., Zarenin, Yu.G., Karnsvskiy, M.I.  
TITLE: Redistribution of signal probabilities in systems  
for the transmission and processing of information  
PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Radiotekhnika,  
v.5, no.3, 1962, 339-346

TEXT: The problem frequently arises of transforming the probability distribution of a signal in transmission or in information processing, for example in employing the Monte Carlo method. The authors attempt to solve the problem of specifying the transmission characteristics of a converter, given the input and output probability distributions, for which they know no published solution. A.I.Kitov and N.A.Krinitzkiy (Elektronnyye tsifrovyye mashiny i programmirovaniye (Electronic digital computers and programming), Fizmatgiz, 1959) have attempted to solve the special case where the input distribution is uniform but their work is inaccurate. The present work uses the mathematical apparatus developed in probability theory for the related problem of the functional transformation of continuous

✓B

Card 1/2

Redistribution of signal ...

S/142/62/005/003/004/009  
E140/E435

random quantities, reducing to the determination of the probability distribution of a given random function if the distribution of the argument is known. The solution of the problem is given by a differential equation. Illustrations are furnished by the transformation of "truncated normal" distribution to uniform and the reverse transformation. While the method is not directly applicable to discrete distributions, a method due to A.A.Kharkevich (*Ocherki obshchey teorii svyazi*. (Outline of a general theory of communications), GITTL, 1955) is recommended. There are 5 figures. *VB*

ASSOCIATION: Kafedra akustiki i zvukotekhniki, Kiyevskiy ordema Lenina politekhnicheskiy institut (Acoustics and Sound Engineering Department, Kiev Order of Lenin Polytechnical Institute)

SUBMITTED: November 10, 1960

Card 2/2

GERANIN, V.A.; ZAREMIN, Yu.G.; KARNOVSKIY, M.I.

Redistribution of signal probabilities in information  
transmitting and processing systems. Izv. vys. ucheb.  
zav.; radiotekh. 5 no.3:339-346 My-Je '62. (MIRA 15:9)

1. Rekomendovana kafedroy akustiki i zvukotekhniki  
Kiyevskogo órdena Lenina politekhnicheskogo instituta.  
(Radio)  
(Information theory)

GERANIN, V.A.; KARNOVSKIY, M.I.

Concerning some reversible conversions linked with a spectral representation of determined processes. Izv. vys. ucheb. zav.; radiotekh. 5 no.4:464-468 Jl-Ag '62. (MIRA 16:6)

1. Rekomendovana kafedroy akustiki i zvukotekhniki Kiyevskogo ordena Lenina politekhnicheskogo instituta.  
(Radio) (Information theory)

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000514810004-8

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000514810004-8"

VOL'F, V.M.; GATKIN, N.G.; GERANIN, V.A.; KARNOVSKIY, M.I.

Interference rejection of a receiving channel "band filter -  
detector - lower frequencies filter - threshold device."

Izv.vyn.ucheb.zav.; radiotekh, 8 no.4:404-410 Jl-Ag '65.  
(MIRA 18:11)

1. Submitted May 7, 1964.

ACC NR: AP6004824	SOURCE CODE: UR/0108/66/021/001/C015/0019
AUTHOR: <u>Geranin, V. A.</u> (Active member); <u>Dugin, V. V.</u> (Active member); <u>P'yanov, V. M.</u> (Active member)	
ORG: Scientific and Technical Society of Radio Engineering and Electrotelecommunication (Nauchno-tehnicheskoye obshchestvo radiotekhniki i elektrosvyazi)	
TITLE: Spectra of time-restricted bell-shaped and $\sin x / x$ video pulses	
SOURCE: Radiotekhnika, v. 21, no. 1, 1966, 15-19	
TOPIC TAGS: video pulse, bell shaped pulse	
ABSTRACT: Practical time-restricted bell-shaped and $\sin x / x$ pulses are considered. A restricted bell-shaped pulse has a "pedestal" at its base. Neglecting the pedestal, the complex spectral density of the amplitude is: $S_A(z) = \frac{1}{\beta} e^{-z^2} [H(z) - H(-z^*)]$ , where $H(z) = \int_0^\infty e^{-pt} dp$ . The latter integral can be evaluated by using tabulated functions and a few auxiliary formulas. Three bell-shaped pulses are presented graphically. The complex spectral density of a $\sin x / x$ pulses is given by:	
$S_{\sin}(z) = \frac{1}{F} \left[ Si\left[\pi z\left(1 + \frac{1}{F}\right)\right] + Si\left[\pi z\left(1 - \frac{1}{F}\right)\right] \right].$	
Cord 1/2	UDC: 621.374

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000514810004-8

I 30301-66

ACC NR: AP6004824

The shape of this pulse is shown. Orig. art. has: 5 figures and 37 formulas.

SUB CODE: 09 / SUBM DATE: 13Jan64 / ORIG REF: 004

Card 2/2114P

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000514810004-8"

GERANIU, E.; MEGNEȘCU, p.; GAZDARU-ADAMESTEANU, C.

Method of preparing thrombin. p. 207. COMUNICARILE. Bucuresti.  
Vol. 5, No. 1, Jan. 1955

Source: East European Accessions List, (EEAL), Lc, Vol. 5, No. 3, March 1956

VLADIMSCU, Radu, academician; VLADIMSCU, I.V.; GERANIU, R.

Physico-chemical constants of the blood in experimental and human  
tuberculosis. Probl.ter., Bucur. 10 no.4:83-92 '60.  
(TUBERCULOSIS, blood)

GERANLIEV, G.

Annual Account Meeting of the T'movo Club. "RADIO" Ministry of  
Communications, #11:11:Nov. 55

DEPARTMENT, R. H.

Editor Interception in Principe is, Rev. 100, 1977, v. 3.

Gard 2/13 1961

WELAKA, K.

JUS, A.; BROSZKIEWICZ, E.; MKIMRT, H.; PLATAU, H.; GERARD, K.;  
LASKOWSKA, D.; SZAJBEL, W.

Studies on conditioned reflex reactions during insulin therapy  
of schizophrenia. Neurologia etc. polska 4 no.1:1-15 Ja-F '54.

1. Z Państwowego Instytutu Psychonurologicznego w Pruszkowie.  
Dyrektor: Prof. dr Z. Kuligowski.

(SCHIZOPHRENIA, therapy,

\*shock ther., insulin, conditioned reflex reactions  
during ther.)

(SHOCK THERAPY, INSULIN, in various diseases,

\*schizophrenia, conditioned reflex reactions during ther.)

(REFLEX, CONDITIONED,

\*in insulin shock ther. of schizophrenia)

GERARD, Mira

Dynamics of cortical processes in terminal stages of schizophrenia.  
Neurologia etc. polska 4 no.3:313-316 May-June 54.

1. Państwowy Instytut Psychoneurologiczny w Pruszkowie. Dyrektor:  
prof. dr Z. Kulligowski.  
(CEREBRAL CORTEX, in various diseases,  
schizophrenia)  
(SCHIZOPHRENIA, physiology,  
cerebral cortex)

JAROSZYNSKI, Jan; BROSKIEWICZ, Iwa; GERARD, Kira; KOLAKOWSKA, Tamara

Some data on the dynamics of catatonic stupor; 1st communication.  
Neur. &c. polska 5 no.2:149-159 Mr-Ap '55.

1. Z Państwowego Instytutu Psychoneurologicznego w Pruszkowie.  
Dyrektor: prof. dr Z. Kuligowski  
(SCHIZOPHRENIA  
catatonia, physiol. & ther.)

GERARD, Kira

Speech disorders during catatonic stupor. Neur. &c.  
polska 6 no.6:737-746 Nov-Dec 56.

1. Z Państwowego Instytutu Psychoneurologicznego w Pruszkowie  
Dyrektor: prof. dr. Z. Kuligowski.

(SPEECH DISORDERS  
in catatonia (Pol))  
(CATATONIA, manifest.  
speech discord. (Pol))

JUS, Andrzej; BROSZKIEWICZ, Ewa; GERARD, Kira; KOZACZEWSKA, Wieslawa

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1. Z I Oddzialu psychiatrycznego Instytutu Psychoneurologicznego  
w Pruszkowie Kierownik Oddzialu: prof. A. Jus Dyrektor Instytutu:  
prof. Z. Kuligowski.

(SCHIZOPHRENIA ther)  
(CHLORPROMAZINE ther)  
(RISERPIINE ther)